

# Bently Nevada conducts seminars in South Africa

Last November, Bently Nevada conducted two seminars, a Machinery Diagnostics Course in Paarl, near Capetown and an Advanced Machinery Dynamics Course in Johannesburg. Donald E. Bently, Agnes Muszynska and Rett Jesse, from Bently Nevada's Minden, Nevada facility and, Ray Mullen and Reinhardt Otto, from ROTEK Engineering, Bently Nevada's representative in South Africa, taught the material in both courses. The topics presented at the Machinery Diagnostics Course included Fundamental Rotor Response, Single and Multi-Plane Balance Response, Casing Force Measurements, Machinery Rubs, Fluid-Induced Instabilities and Shaft Crack Detection. The participants enjoyed the course and thought they learned some very practical techniques that would be useful in their jobs.

The Advanced Machinery Dynamics Course included the following topics:

- *Perturbation Testing for Dynamic Stiffness Parameter Identification*
- *Shaft Vibration versus Shaft Stress*
- *Root Locus Method for Rotor Stability Evaluation*
- *Fluid-Induced Instabilities*
- *Machine Case Histories (emphasizing malfunction identification)*
- *Rotating Stall in Radial Compressors*
- *Rotor Torsional Vibrations*
- *Rotor-to-Stator Rubs*
- *Shaft Crack Detection*

The attendees told us that they were impressed with the instructors' depth of knowledge and the practical examples they used to explain complex subjects. ■



Advanced Machinery Dynamics Course participants shown outside the ROTEK Conference Center in Johannesburg, South Africa.



Machinery Diagnostics Course participants enjoy a dinner at Paarl, South Africa.